

Title (en)

METHOD FOR TRANSPORTING A MATERIAL, MULTI-DIMENSIONAL DRIVE, AND PROCESSING DEVICE

Title (de)

VERFAHREN ZUM TRANSPORTIEREN EINES GUTES, MEHRDIMENSIONALER ANTRIEB UND VERARBEITUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE TRANSPORT D'UNE MARCHANDISE, ENTRAÎNEMENT MULTIDIMENSIONNEL ET DISPOSITIF DE TRAITEMENT

Publication

**EP 3440441 B1 20210714 (DE)**

Application

**EP 17712426 A 20170308**

Priority

- DE 102016205513 A 20160404
- EP 2017055461 W 20170308

Abstract (en)

[origin: WO2017174286A1] The invention relates to a method for transporting a product (50), wherein a carrier (10) is used for receiving and carrying the product (50), at least one variable is detected that is representative for a moving state of the carrier (10) and thus, the moving state of the carrier (10) with or without product (50), prior to, during, and/or after a transport process of the carrier (10), (a) from a variable representative of a change in the moving state of the carrier (10), and/or (b) from a variable representative for a means for reaching and/or maintaining a moving state of the carrier (10) with or without product (50), the mass of the product (50) is determined.

IPC 8 full level

**G01G 19/00** (2006.01)

CPC (source: EP US)

**B65G 43/00** (2013.01 - US); **B65G 54/02** (2013.01 - EP US); **G01G 3/16** (2013.01 - EP); **G01G 19/00** (2013.01 - US); **G01G 19/22** (2013.01 - US); **B65G 2203/0266** (2013.01 - US)

Citation (examination)

JP H0336115 A 19910215 - MAZDA MOTOR

Citation (opposition)

Opponent : Beckhoff Automation GmbH & Co. KG

- JP H11123407 A 19990511 - SCHLOEMANN SIEMAG AG
- WO 2013059934 A1 20130502 - UNIV BRITISH COLUMBIA [CA]
- DE 69313950 T2 19980305 - DAIFUKU KK [JP]
- DE 102004002920 A1 20050407 - SIEMENS AG [DE]
- DUTTA SAGAR; BORDOLOI SUDIPTO: "Measurement of weight using magnetic levitation", INTERNATIONAL CONFERENCE ON CIRCUITS, COMMUNICATION, CONTROL AND COMPUTING, IEEE, 21 November 2014 (2014-11-21), pages 45 - 49, XP032745558, DOI: 10.1109/CIMCA.2014.7057754
- COMPTE, J.: "Electro-Dynamic Planar Motor", PRECISION ENGINEERING, vol. 28, no. 2, 2003, pages 171 - 180, XP002472485, DOI: 10.1016/j.precisioneng.2003.08.002

Cited by

EP3621902A4; EP4375626A1; WO2024110679A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102016205513 A1 20171005**; EP 3440441 A1 20190213; EP 3440441 B1 20210714; JP 2019516110 A 20190613; US 10584001 B2 20200310; US 2019152724 A1 20190523; WO 2017174286 A1 20171012

DOCDB simple family (application)

**DE 102016205513 A 20160404**; EP 17712426 A 20170308; EP 2017055461 W 20170308; JP 2019502144 A 20170308; US 201716091169 A 20170308